

**WEST**

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May 16, 1995

DERWENT-ACC-NO: 1995-212231

DERWENT-WEEK: 199528

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TITLE: Biodegradable laminated nonwoven structure useful for medical material - comprising laminate of nonwoven fabric of interlaced natural fibres and nonwoven fabric of biodegradable thermoplastic synthetic long fibres, etc.

PATENT-ASSIGNEE:

ASSIGNEE

CODE

UNITIKA LTD

NIRA

PRIORITY-DATA: 1993JP-0300904 (November 5, 1993)

PATENT-FAMILY:

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ABSTRACTED-PUB-NO: JP07125128A

BASIC-ABSTRACT:

The structure comprises a laminate of a nonwoven fabric layer made of biodegradable thermoplastic synthetic long fibres produced from an aliphatic polyester type polymer obtd. by ring-scission polymerisation and a nonwoven fabric layer made of natural fibres mechanically interlaced together. The structure has dot shape welding areas in which the synthetic long fibres and the natural fibres are welded together. In the areas, the natural fibres (2) present at least in the boundaries between the nonwoven fabric layers are embedded in the molten portions (1) of the synthetic long fibres to be fixed. The nonwoven fabric layers are wholly held together as a unit.

The polymer is poly-epsilon-caprolactone and/or

poly-beta-propiolactone.

USE/ADVANTAGE - The structure is useful for medical and sanitary materials, wiping cloth, packagings and sawdust collecting bags. The structure has biodegradability, high peel resistance and water absorptive, hydrophilic properties.

In an example, as the natural fibres, bleached cotton fibres were used. The nonwoven fabric layers were welded in dot shapes with an ultrasonic wave welder.

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: BIODEGRADABLE LAMINATE NONWOVEN STRUCTURE USEFUL MEDICAL MATERIAL COMPRISE LAMINATE NONWOVEN FABRIC INTERLACED NATURAL FIBRE NONWOVEN FABRIC BIODEGRADABLE THERMOPLASTIC SYNTHETIC LONG FIBRE

DERWENT-CLASS: A23 A96 D22 F04 P73

CPI-CODES: A09-A07; A12-D04; A12-P01; A12-P02; A12-S05G; A12-V03A; D09-C04B; F02-C01B2; F04-C01; F04-E; F04-E04;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 017 ; G2142 G2131 D01 F43 D23 D22 D31 D50 D83 ; R01295 G2131 D01 D23 D22 D31 D42 D50 D86 F43 ; H0317 ; S9999 S1183 S1161 S1070 ; S9999 S1149 S1070 ; P0839\*R F41 D01 D63 ; P0055 ; H0000 Polymer Index [1.2] 017 ; B9999 B3021 B3010 ; Q9999 Q7818\*R ; Q9999 Q7987\*R ; K9518 K9483 ; K9676\*R ; N9999 N7192 N7023 ; N9999 N6166 ; N9999 N6020 N6008 ; K9938 ; Q9999 Q7034\*R ; Q9999 Q8366\*R ; Q9999 Q8413 Q8399 Q8366 ; B9999 B5301 B5298 B5276 ; B9999 B3407 B3383 B3372 ; Q9999 Q9132 ; ND01 ; ND10 Polymer Index [2.1] 017 ; P0599 ; S9999 S1183 S1161 S1070 Polymer Index [2.2] 017 ; B9999 B3021 B3010 ; Q9999 Q7818\*R ; Q9999 Q7987\*R ; K9518 K9483 ; K9676\*R ; N9999 N7192 N7023 ; N9999 N6166 ; N9999 N6020 N6008 ; K9938 ; Q9999 Q7034\*R ; Q9999 Q8366\*R ; Q9999 Q8413 Q8399 Q8366 ; B9999 B5301 B5298 B5276 ; B9999 B3407 B3383 B3372 ; Q9999 Q9132 ; ND01 ; ND10 ; N9999 N5710

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